

# RF Balun Transformer

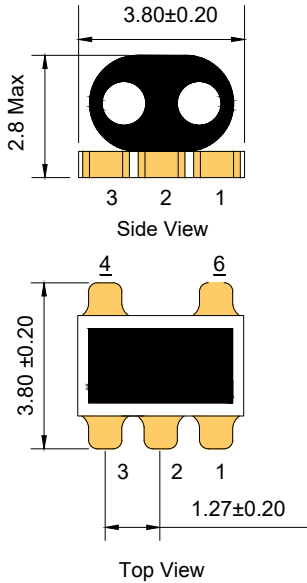
## EBG0282-B013331

2024-09-10 Rev. 0

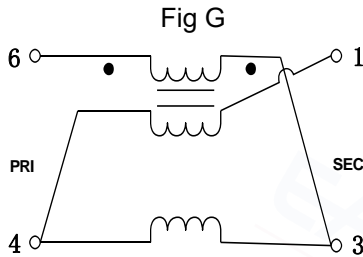


50Ω&75Ω 1:1 Transmission Line Transformer 5-2800 MHz

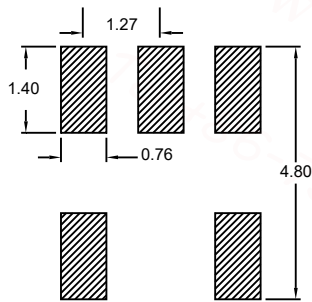
### Outline Drawing(mm)



### Electrical structure



### Recommended layout(mm)



### Pin Connections

Input	6
Output 1	1
Output 2	3
Ground	4
Not used	2

### Features

- RF Power, 0.25W Max
- DC Current, 50mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C

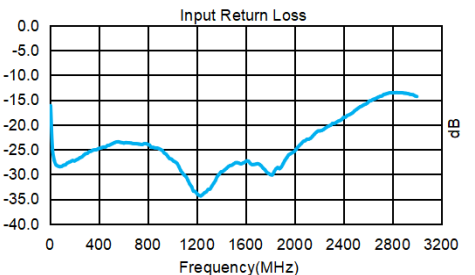
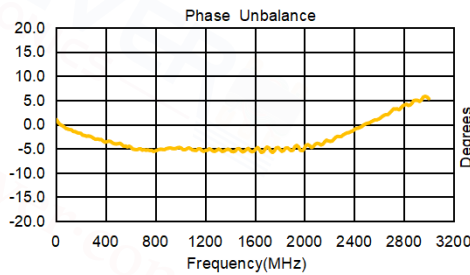
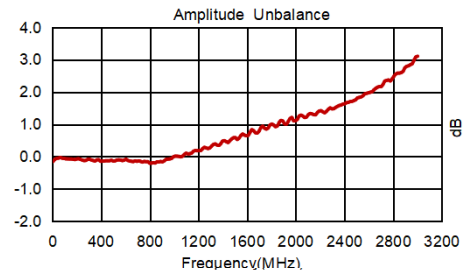
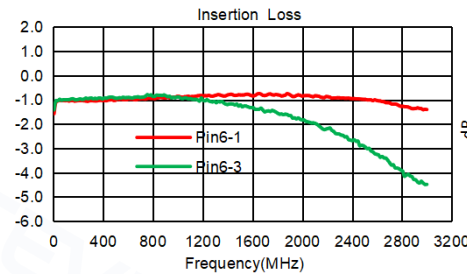
Replacement: TC1.33-282X-4+

### Applications

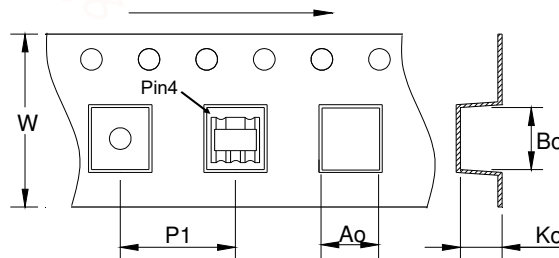
- For Dcsis 3.0 & 3.1 Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

Electrical Specifications: TA=25°C, 0dBm, Z0=75Ω

Parameter	Test Conditions	Units	Min	Typ	Max
Insertion Loss (Pin6-1)	5-2800MHz	dB	—	1.0	2.0
Insertion Loss (Pin6-3)	5-2800MHz	dB	—	3.0	4.5
Amplitude Unbalance	5-2800MHz	dB	0.0	1.0	3.0
Phase Unbalance	5-2800MHz	Deg	0.0	5.0	15.0
Input Return Loss(Pin6)	5-2800MHz	dB	10.0	25.0	—



### Carrier Tape Orientation



Parameter	Units	Value
Qty per reel	PCS	2000
Reel Size	mm	330
Tape Width	mm	12.00
Pitch	mm	8.00
Ao	mm	4.20
Bo	mm	4.20
Ko	mm	3.00